# **GUIDE TO USING SAITEK GAMING EXTENSIONS (SGE)**

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#### IMPORTANT!! – PLEASE READ

The first thing to say about Saitek Gaming Extensions (SGE) is that with the exception of a few products (GM2, GM3, P8000/PCDash 2) IT IS NOT REQUIRED TO MAKE THE CONTROLLER WORK IN THE GAME. Most of the controllers just need to be set up and calibrated within **Game Controllers > Gaming Options** in the **Control Panel** in Windows® in order for the games to be able to recognise them. You then need to tell the game that you want to use a joystick/pad/wheel from within the game's options menus and that's all there is to it. Most games these days also have control configuration screens built into them where you can set up each button on your controller to do what you want it to in the game.

The presence of such a screen in a game essentially negates the need for SGE to be used, as SGE is just simply software that enables you to program each button on the controller to do what you want it to in the game. Controllers that really don't require the use of SGE include the Cyborg USB stick, P750, P1500, P2000 and the R100 USB Wheel. The one feature of the above products that might attract you to using SGE is the "shift" button feature that can be found on the stick and the pads; this allows you to essentially "double up" the commands that can be assigned to each button but this will be explained later on in the <u>Advanced</u> <u>Programming</u> section of this guide.

The controllers that really do have to use SGE are the GM2, GM3 and the PCDash 2/P8000 - as these rely on essentially "replacing" the keyboard. The X36 Flight Controller and X45 Flight Controller also really need to be programmed to gain full use of all their features and their multiple modes although, like the Cyborg stick and the pads, they operate perfectly well within games without programming.

# Introduction

# What is SGE

Every game that you buy has a list of functions and commands built into it. A Flight Simulator, for example, often has a host of commands one of which might be the landing gear. The key on the keyboard that this command is usually assigned to is **G**. SGE allows you to make the buttons on your controller emulate a key (or combination of keys – more on that later) from the keyboard - so you could have any button on your controller perform as the key in order for it to activate the landing gear.

However, this programmability is not limited to the buttons, every part of the controller is programmable including the hat switches and axis movements (up, down, left and right on a stick – even the throttle and rudder can be configured if your controller has them but they usually don't need to be). The rest of this guide will start with the basics of creating and assigning commands and then move onto controller-specific sections and advanced features.

# How We Make Game Profiles Here at Saitek

The product manual that came with your controller just covers the basic aspects of programming your controller. This guide will show you how WE make a profile when creating them for the website.

The first step is to read the guide that came with your game. As mentioned in the introduction, every game has a list of commands that have been assigned to different keys on the keyboard. If you don't have a manual then you are going to need to find out what key does what on the keyboard - the game may have a list of commands in an option menu somewhere so you can also copy these out to a piece of paper. Either way, you need a list of commands with the associated keyboard presses so you know what you are going to be programming.

Firstly, you need to first create a Profile within Saitek Gaming Extensions, so open up the **Saitek Gaming Extensions** Window and you will see a view like this.



You need to double-click on **New Game Wizard** and you will start a step-by-step process for creating a new profile. There are only two screens that you actually need to worry about during this process.

The first screen is basically just a starter screen explaining that you are running the **New Game Wizard**, so just click on **Next** – it will take you get to the first screen that we need to look at.

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100001	Quake III Team Arena	01/02/01 1:
	Doom95	29/01/01 1:
	100 FIFA 2001	26/01/01 1-
	FIFA 2001 - 3D Setup	26/01/01 1-
	Check For Update	26/01/01 1-
	Superbike 2001	25/01/01 11
Lato	Ctarl annar	24/01/01 1
ALC: NOT	14	
	Click Browse to locate the game	Browse
A DESCRIPTION OF THE OWNER OF THE		

When you first open this screen, the wizard immediately starts searching your computer for all the **.exe** files on your computer. The **.exe** files are the files that actually run all of your programs - so you will probably notice that the list of programs in here includes many programs that aren't necessarily games, such as WordPad or Internet Explorer. Once it has finished searching you will see a list of possible choices. Initially, the list is in date order with the most recently installed program at the top. However, if you click the **Name** bar at the top of the list of programs, it will shuffle these into alphabetical order, which might make it easier for you to find the game that you're after. Either way, simply select the game you want to create a profile for and then click **Next**.

The next screen checks what game you have selected and also gives you the option to change the name of the profile or add a comment to the profile. Neither is really necessary, especially as they can be adjusted later once you have created the profile.

The screen after this has two checkboxes. The first says **Set As Default Profile**, you should usually leave this ticked otherwise the profile you are making won't work. The other says **Use Target Directory** and this should also be left ticked to ensure the profile will actually work.

The screen after is an important one – where you select the controller you want to use in the profile. Obviously, you should select the controller you have but it is possible to select multiple controllers by holding down the **Ctrl** key on the keyboard and then clicking on all the controllers you want. In the example below you can see that We have selected the Cyborg USB stick, the GM2 Pad, the P750 Pad and the X36 Controller. For now, just select the controller you are using as you can always add controllers to your profile later, once it has been created.



The next screen gives you the option to **Disable The Buttons In this Profile** that generally you should not do so leave that alone.

The final screen is there for you to check that the profile is set up as you desire. It lists the name of the profile, the target directory of where the game you are creating this profile for is installed and the controllers you are adding into this profile. Just click **Finish** to go back to the **Saitek Gaming Extensions** window and you will see the icon for your new profile appear next to the **New Game Wizard**, **Import Game Wizard** and **Default Profile**.



Open up the profile by double-clicking on it and you will see the following screen.

#### **Programming Commands**

There are now two methods of programming commands to the buttons on your controller. The first method that a lot of people use is to go straight into the 3D model of the controller and program there. This is fine for saving time but for some controllers it is not the best way to do things. We will illustrate this method first and then go on to describe the method we use here at Saitek.

# Method A

Double-clicking on the controller icon (in this case the Saitek Cyborg 3D Stick USB) brings up the 3D model of the controller. From here it is very easy to program the buttons to do what you want. Using the mouse, just click on the button you want to program and you will see it turn light blue in colour. At the bottom of the screen you can see four drop-down menus (we will explain these later but they are fairly self explanatory) and a bar at the bottom that has a number in it surrounded by a red circle. All you need to do is click in that bar (this highlights the number in blue) and then press the key on the keyboard that you want that button to be from now on.



As you can see in the picture above we have programmed the trigger to be the **G** key on the keyboard. Do the same for all your buttons and you have a configured stick – no need to save the settings you have changed as they are automatically saved as you enter them. Just close the SGE window and play the game and the buttons will now do what you tell them to.

For a controller like the Cyborg this is fine, but it doesn't help when you are trying to create advanced commands. In order to fully understand the <u>Advanced Programming</u> Section of this guide that appears later, it will be easier if you use the following method.

# Method B

Instead of going into the 3D model of the controller, open up the **Command List** by doubleclicking on that icon instead. In here you will see a list of DirectX Button numbers. These are here because each button on the stick has its own unique identifying number. Leave these alone and point to a blank area of the window and right-click (click the right mouse button). You will get a drop-down menu appear with options in it; point to **New** and then click the **Command** option that pops out from it.

Exploring - Command List				
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Back Forward Up	Ca Copy	Paste Undo Delet	Properties Views	•
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Folder:     ×       Desktop     Hy Computer       H = 35 Flopop (A)       H = 0 tis2patt02 (D)       H = 0 tis	Cyborg Stick Trigge Direct/Sutton 1 Direct/Sutton 2 Direct/Sutton 3 Direct/Sutton 4 Direct/Sutton 6 Direct/Sutton 7 Direct/Sutton 7 Direct/Sutton 7 Direct/Sutton 7 Direct/Sutton 7 Direct/Sutton 7 Direct/Sutton 7	Vew Anarge Joor Refeat Party Paperties	N Commund	

You will then get a new icon underneath the DirectX Buttons called **New Command** – doubleclick on it to open it and you will see a **Properties** window pop-up. There is a box that says **Name** next to it and that will currently have the words **New Command** in it – simply type the name that you want this command to be. In the example below, we are creating a command called **Punch**.

Command P	roperties	
neral Action		
]		
Name	[Deck	
T MILLY	Induction (	
	G Single Action	
	C Application	
	C Web Site	
Attributes.	🔒 🗂 Read Only	
	UK Lancel	Apply

You can see that there are other settings that you can adjust here, but for the time being we just want **Single Action**. The others will be explained in the <u>Advanced Programming</u> Section of the manual. Now you simply need to click the **Action** tab at the top and you will be presented with the following screen.

New Command General Action	Properties		2×
l			Ľ
Advanced >>	1		
	ОК	Cancel	Acci /

Simply click in the white bar at the top and then press the key on the keyboard that activates the command that you are trying to create. You should see it appear in that bar, much like it did in the example in *Method A*.

lew Command Properties	22
General Action	
E I	X
Advanced >>	

Now click **Apply** and then **OK** and you will be back at the **Command List**. You will see your new command is now called what you renamed it to. If at any point after creating your command you come back here and it is still called **New Command** then simply press **F5** on the keyboard to refresh the screen and it should then change to what you called it. Now, using the same method, create all the commands you want to program in and you will end up with something like below (obviously your command names will be different unless you are using the same game as we are in the example).

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Stule Left

In the column on the left, click on the icon for your controller and this will bring up the 3D model again. Using the mouse, click on the button you want to assign and then, instead of clicking in the bar at the bottom, click the drop-down list on the right of the screen, underneath the 3D view, as indicated in the picture below.



You can see that in that drop-down list all the commands that you created are present, so simply scroll through the list until you find the command that you want to assign to this button. As soon as you do so you will see that in the bar at the bottom of the screen the key press you assigned to that command appears.



You can now go and program all your buttons in the same way. Initially this may seem like a more laborious method compared to *Method A* but the benefits will really become clear when we move onto <u>Advanced Programming</u> features like the hat switch or axes of a controller. Also, it helps if you create all of your commands first as you can then make sure that they are all present.

# **Advanced Programming**

Now that we've covered the basics of creating commands in the command list and then assigning them to buttons, we can move on to the more advanced parts of the controllers. This section will lead off with the Cyborg Stick, as it essentially contains all the features that the other controllers have to a greater or lesser degree. The sections that follow afterwards will address specific controllers and the way in which configuring these functions differs but will otherwise refer directly back to the explanation in the Cyborg Section. For example, all the controllers (with the exception of the R100 USB Wheel) have a shift function which is programmed in much the same way. There are some differences that occur because of other features on the controller and these are addressed in the controller-specific sections.

Finally, a section will follow that addresses advanced command creation – the SGE software is not just limited to single keystrokes for a command, as will be seen.

# Cyborg 3D USB Stick & Cyborg 3D Digital II

# **Shift Function**

To enable a shift button to act as a shift you need to bring up the 3D view of your controller and double-click on the shift button on the 3D model. You will see a **Properties** screen like the one below.

Shift Pre	perties	
eneral L	elt Shilt	
	Left Shift	
Type:	Button Control	
Comments	E	
Comment	<b>•</b>	
Commerni	E	

Simply change the **Attribute** of the button at the bottom from **Action** to **Shift**, as illustrated. You will see that the **Action** tab at the top of the window changes to **Left Shift**. Clicking on this brings up the following screen;

nt anint i ropen	ies	?
General Left Sh	an	
☐ [Latch	ed Shift	
Enabling th	e Latched Shilt check box will	cause the shift
Enabling th state to rem	e Latched Shift check box will ain active until the control is pr	cause the shift essed again.

This enables you to change the way the shift button operates. As the description at the bottom of that screen says, if you set the shift to operate as a **Latched Shift** it works much like the **Caps Lock** key on your keyboard. When you press it enables the shifted functions until you press it again at which point it will return to Unshifted functions. If you leave it as a normal shift it will only enable the shifted functions whilst held down and return to unshifted functions when released.

Programming shifted functions to your buttons is very similar to programming normal functions. Now that you have enabled the shift button to act as a shift you will find that things are a bit different when you open up the properties of the other buttons on the controller – like in the picture below.

ieneral Behavior	
Assignments Unshifted	Punch
Left Shift	Use
Right Shift	Punch
	C) Epsward C) Experiment

As you can see, the drop-down commands menu next to **Left Shift** is now no longer greyed out like the **Right Shift** is and we can select a command from our drop-down list, just like we did for the normal commands earlier on in this guide. Also, we can assign a different command from the one that operates when the button is in its unshifted state. If we were to also enable the **Right Shift** button on the controller as a shift rather than an action button you can see that we could effectively assign a third command to every button. This can bring the number of assignable commands on the stick up from a basic 10 to a potential of 24 commands! (58 commands if we include the 8 directions of the hat switch but this is not very feasible because of the difficulty of selecting a specific hat switch position when using the controller).

# **Hat Switch**

The hat switch can be assigned shifted functions in a similar way but its properties screen will look slightly different - as shown.

Hat Prop	esties	1
eneral   Un	shifted   Left Shift   Right Shift	
	P0V Hat	
Туре:	Hat Control	
Comments	1	

If you click the **Unshifted** tab then you will see that you can set the hat switch's attributes as illustrated earlier in the manual and can now see when you click on the **Left Shift** or **Right Shift** tabs a check box that says **Use Unshifted Attributes**.



If you unpick this then you can set the hat switch to use different actions than that in the unshifted mode, make it emulate a mouse or a D-pad or just operate as a normal POV (point-of-view) switch – just like you could in Unshifted mode.

# **Stick Axis Configuration**

As mentioned briefly in the opening paragraph of this Cyborg section, you can configure the stick itself to operate in a different manner. Note: Please do bear in mind that it is not normally recommended that you attempt this; it is usually best to leave the stick itself operating as it normally does. If you are ever unsure, just set the attribute for the stick back to analogue in the **Properties** window for each axis. To do this you will need to open the 3D view of the controller up in your profile in SGE. Then click on the middle drop-down menu, look for x-axis in there and click on it



When you do you will get the x-axis properties window on-screen. Click the **Unshifted** tab at the top and you will see that you have some attributes to adjust, much like you get when you open up the hat switch properties. If you leave the attribute as analogue then the stick itself will operate exactly as if you had not programmed it – this is the default attribute for any axis. As you can see, there are other attribute options available. In our first example, we will look at the mouse option.

eneral Unshifted L Mouse Axis	elt Shift	Right Shift		
Mouse Axis	G 1.0			
	v. Leit	/ Right		
	€ Up/	Down		
This Attribute enal movement. Selec generate.	bles the ax t which typ	is to emulate se of mouse r	a mouse novement t	to
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If we choose **Mouse** we get the option of what mouse axis we want to assign the currently selected axis to. In our example, we are adjusting the x-axis of the stick (left/right movement), so we would logically assign it to emulate the left/right motion of the mouse. If we configured the y-axis to emulate the up/down mouse motion then we would have a stick that operated like a mouse so you could effectively use it in games that don't actually include joystick support like strategy games.

The banded mode is slightly different. If you select it you get a button called **Edit Bands**.

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ieneral Unst	hilted Left Shift	Right Shift	
	E	dit Bands	
A Bandeo axis into a Modify the	Axis enables yo series of commu e assignments fo	u to divide the deflection ands. Click the button r this axis.	on of the to View or
Attributes:	C Analog C Mouse	🗖 Use Undrited	l Athibutes
Altributes:	C Analog C Mouse C Banded	C Use Unifilite	l Attributes

If you then click on this button you get the following screen.



This screen with increments from 0 - 100 describes the movement of the joystick across its current axis. The red line indicates where the stick currently is positioned (at rest in the centre). If you now move your stick you will see that the red line moves to correspond with the movement of the stick. If you move the stick fully left the red line goes to zero and if you move the stick fully right the red line goes to 100. If we were adjusting the y-axis the red line would move to zero if you pulled the stick back and up to 100 if you pushed the stick forwards.

What we can do here is set it up so that when the stick reaches a certain position it activates a command that we have set up. First though, we have to "split" this axis.

There are two ways of doing this. One way is to move the stick so that the red line is at the point where you want the command to start and click **the Split At Axis Position** button. The other way is to use your mouse and point to the position where you want the command to start and then click the right mouse button. You will get a drop-down menu from which you can choose the option **Split Band**. Either way, you will get something that looks like this.



Obviously, the split will appear at whatever position you chose. We now want to create a second split so that we end up with three sections that say **No Command** in them. Once that is done, we can click the **Space Evenly** button to get them to a nice equal size. The reason for creating three sections is that we need to have a section that covers the middle of the axis' movement that has no command assigned to it. This way the stick will have a position where it is "at rest" and therefore not continually issue commands, as would have been the case had we just created two sections by splitting at the 50 mark.

Once you have your three sections you simply choose the section you want to assign a command to and then choose the command from the drop-down list at the top of the window that says Deflection xx-xx (where xx is the number that it is on your screen – it will vary depending on where you set your splits up on the 0-100 scale). Do the same for the other section (remembering to leave the middle section blank) and you will end up with something like the following.

- No Command	
50 — No Command —	-
-	
BANK LEFT AILERONS	
ipace Evenly Split At Axis Ck	sar

In the example above, the **Bank Left Ailerons** command will be activated as soon as you move the stick past the point where that "band" starts. Obviously you can assign any command you want to these banded areas. You might find it useful for games that only include keyboard support so you can assign the movement keys from the keyboard to these positions and the stick will then work in the game because it is "pretending" to be the keyboard.

Remember that every axis on the stick, including the throttle and rudder can be configured in this way.

Finally, if we go back to the properties screen of the axis we can see that just like with the hat switch there are options for the two shifted modes at the top of the window so we could have the stick operating differently for each shift mode.

# P750, P1500 and P2000 Pads

Everything that can be done on the Cyborg stick can be done on the P-Series pads and in exactly the same way. There are just some minor differences that need clarifying.

# **Shift Function**



Because of the way the controllers' configuration changes when you change from Analogue to Digital control the shifted function is slightly more complex on the P-series pads. In the picture above you can see a typical **Properties** screen of a button when the shift button has been enabled as a shift function for the P2000 Tilt Pad. The P750 and P1500 obviously would not have the extra options for the tilt + etc. as they do not have a tilt function. You can see here that we could have 8 different assignments for the one button depending on what mode the pad is in. This obviously isn't required and in practice you will find that you only need to make sure that the shifted functions have one command assigned to them and the unshifted commands have another command assigned to them like in the picture below. This will avoid confusion.

Assignments	
Digital	UGHTS ON;OFF
	C Forward C Baptwind
Analog	🕼 LIGHTS ON;OFF 💽 🙆
	C Forward C Bookaving
Digital + Shift	EXTEND FLAPS FL .
orgena i orient	C Forward, C Backward
Analog + Shift	EXTEND FLAPS FL •
	C Forward C Backward
Tilt + Digital	UGHTS ON OFF
	C Forward C Backward
Tilt + Analog	UGHTS ON OFF
	C Forward C Bap(warp
Tilt + Digital + Shift	🐼 EXTEND FLAPS FL 💌 🕐
WEAD SOUCCE REPORT	C Forward C Backward
Tilt + Analog + Shift	🗇 EXTEND FLAPS FL 💌 🙆
	C Forward C Backward

In the example above we can see that the shifted commands are **Extend Flaps Fully** and the unshifted commands are **Lights On/Off**. Using this, we avoid confusion by ensuring that no matter what mode we are in, a shifted command is always going to be the same and the same for the unshifted commands.

# Hat Switch

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Hat Control	
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© 8 Way Hat C 4 Way Hat	_
	Joypad Hat Control

Obviously, when the pad is in Digital Mode the hat switch is no longer a hat switch but replaces the stick as the controller and this can lead to some possible confusion when programming it. The hat switch can be programmed just like it can on the Cyborg stick (choice of Actions, D-Pad (default in Digital mode), POV (default in Analogue mode) and mouse). Again, just like the buttons (explained just above) you should generally keep shifted commands the same as each other and do the same for unshifted commands (with the obvious exception that the hat switch's attribute should be set to D-pad for any digital modes so that you still have movement control in the game. The different combinations of Digital, Digital+Shift etc. can be accessed by clicking on the tabs at the top of the **Properties** window and if you can't see a tab you want then click the little arrows at the top-right of the screen to scroll across to the tab you want.

# **Stick Axis Configuration**

You have exactly the same options as you do on the <u>Cyborg</u> stick, except you have the same complications caused by the multiple modes of the pads, like with the buttons and hat switch above. Otherwise the axes can be programmed in exactly the same way, which of course also includes the Throttle Wheel on the pads.

#### GM2

The GM2 Action Pad is one of the controllers that needs to be configured fully before it will work correctly. A common mistake that is made is for people to forget about using SGE, enable joystick control within the game they are using and reassign the buttons to do what they want from within the game. This causes a few problems. First of all, the hat switch on the GM2 pad that is commonly used for movement in games can only be assigned to 4-way movement. As soon as you try to get diagonal movement (forwards and left, backwards and right etc) the character you are controlling will just stand still because no command is assigned to the diagonal positions of the hat switch.

You will also find that if you enable joystick control within the game that it then picks up the Thumb Wheel on the GM2 pad and it usually picks it up as the y-axis (up/down movement) on a joystick. Consequently, whatever you are controlling will immediately run forwards as soon as you get into the game (the assumption here is that you are using the GM2 with a first person shooter game such as Quake 3 Arena). Also, you will not be able to configure the Thumb Wheel as you can using SGE.

The first lesson is to disable joystick support in the games you will be using the GM2 with, as the GM2 is just a keyboard replacement that will be programmed with keyboard commands.

Assigning commands to the buttons on the GM2 is the same as that for any other SGEsupported controller and has already been described in the basic section of this manual so we will examine the trickier aspects of the pad, using the example of a first person shooter game like Project I.G.I. from Eidos Interactive.

# **Hat Switch**

The hat switch on the GM2 pad is most commonly used for movement control but there is an important point to note when you do so. As mentioned above, you must have diagonal movement commands. This is easily done – you just create 8 movement commands in your profile's command list, one for each "compass direction" of the hat switch (Forwards, Forward+Right, Step/Strafe Right, Backwards+Right, Backwards, Backwards+Left, Step/Strafe Left and Forwards+Left). For example, the Forward and Right command in Project I.G.I. would look something like this.

orwards + Right Properties General Action	22
Up + Right	F
Advanced >>	
OK Cance	Apply

Once you've created those commands then you can assign them to the hat switch on the pad. Bring up the 3D view of the GM2 Pad and double-click on the Hat Switch. Make sure the action is set to 8-way rather than 4-way and then click the **Unshifted Tab** at the top of the window. Set the **Attributes** to **Actions** and you can then assign the appropriate commands to each "compass direction" on the hat switch. Below you can see what this should look like.



The hat switch will now operate movement correctly on the GM2 pad. Before we move on to something else a common question asked by people is why we don't put the turn left and right commands to the left and right positions of the hat switch. The answer is simple – in the average first person shooter you've already got the turn left and right commands on your mouse's movement so there's no need to assign them to the hat switch; besides which you need to be able to strafe in these sorts of games as it always marks the difference between a successful and unsuccessful gamer.

In strategy games the hat switch can be assigned to anything you want. Some games have a scroll function where you can move the view around the map that you are looking at, so you could assign those commands to the hat switch. Of course it is entirely up to you what you assign but basically, anything goes.

The hat switch on the mouse can be programmed in the same way but it is limited to 4-way movement.

# **Thumb Wheel**

The Thumb Wheel on the pad can again be used for anything. Most commonly it is banded, just as described in the section that deals with the <u>Cyborg 3D stick's</u> axes but we will go over it again here.

In Project I.G.I. you have a Sniper Rifle and Binoculars, both of which have the ability to zoom the view in and out and this is a perfect function to use the Thumb Wheel for.

To set this up we first need to have created our commands in the **Command List** as described in the basic section of the manual. You will need to bring the properties of the Thumb Wheel up on screen so go into the 3D view of the GM2 in your profile and double-click on the Thumb Wheel. Click the **Unshifted** tab at the top of the **Properties** window and then set the attributes to Banded.

ieneral Un	hilted		
	Ed	t Bands	
A Bande axis into Modily th	d Axis enables you a series of commar le assignments for f	to divide the deflection vds. Click the button to this axis.	of the View or
A Bande axis into Modity th Attributes:	d Axis enables you a series of commar e assignments for t C Analog C Mouse	to divide the deflection vds. Click the button to his axis.	of the View or

You can then click the Edit Bands button to bring up the following screen.

Band Editor		? ×
Deflection 66-10	00: 🔗 Zoom In O' Forward 🗸	Deckwed
	No Comme	d
Space Evenly Right click on th merge a band. To alter start or deflection.	Split At Avis Position he band display win end points, drag to	Clear dow to split or the desired
	OK	

This **Band Editor** window with increments from 0 - 100 describes the movement of the Thumb Wheel. The red line indicates where the Thumb Wheel currently is positioned (at rest in the centre). If you now move your Thumb Wheel you will see that the red line moves to correspond with the movement of the wheel. If you move the wheel fully left the red line goes to zero and if you move the wheel fully right the red line goes to 100.

What we can do here is set it up so that when the wheel reaches a certain position it activates a command that we have set up. First though, we have to "split up" this axis.

There are two ways of doing this. One way is to move the wheel so that the red line is at the point where you want the command to start and click the **Split At Axis Position** button. The other way is to use your mouse and point to the position where you want the command to start and then click the right mouse button. You will get a drop-down menu from which you can choose the option **Split Band**. Either way you will get something that looks like this.

100-		
	No Comman	d
50 —		
	No Comman	đ
Space Evenly	Split At Axis Position	Clear

Obviously, the split will appear at whatever position you chose. We now want to create a second split so that we end up with three sections that say **No Command** in them. Once that is done we can click the **Space Evenly** button to get them to an equal size. The reason for creating three sections is that we need to have a section that covers the middle of the axis' movement that has no command assigned to it. This way, the wheel will have a position where it is "at rest" and therefore not continually issue commands, as would have been the case had we just created two sections by splitting at the 50 mark.

Once you have your three sections, you simply choose the section you want to assign a command to and then choose the command from the drop-down list at the top of the window that says Deflection xx-xx (where xx is the number that it is on your screen – it will vary depending on where you set your splits up on the 0-100 scale). Do the same for the other section (remembering to leave the middle section blank) and you will end up with something

like the following.

100-	Zoom In	
- - 50 -	No Comman	
-	Zoom Out	
0 —	Split At Axis	Clear

When we move the wheel right when the binoculars or the sniper mode on the rifle are in use then the view will zoom in and if we move it left then the view will zoom out.

Again, as with the hat switch any command can be assigned to this Thumb Wheel. In other shooter games you may want to assign commands to the wheel for switching between weapons. Some strategy games have an option to rotate the view of the map/battle area you are viewing and the wheel is ideal for this.

# **Shift Function**

This is programmed in precisely the same way as that for the <u>Cyborg 3D</u> Stick with the obvious exception that the GM2 only has one shift button whereas the Cyborg has two.

One final point for the GM2. We do get asked sometimes why the mouse buttons can't be reprogrammed. The answer is quite simply that they don't need to be. In all the games that the GM2 was designed to be used with, a left and right mouse button are needed to operate commands in those games. It makes sense therefore to leave the mouse clicks on the buttons that everyone uses every day whilst using their computer.

# X36 Flight Controller/X45 Flight Controller

The X36/X45 looks complicated to program but it isn't really. If you take everything you've learned from the basic section of this manual and refer back to the sections for the Cyborg and GM2 controller then you really can't go far wrong. The only complex part of the X36/X45 is the sheer number of commands that you can assign to it. When you consider that every button, hat switch and rotary dial on the combo can have three different commands assigned to it for each of the three modes it sounds a lot. But you can double this number too when you realise that every mode can have a shifted command assigned too because of the pinkie/shift button – that's a possible six commands per button.

#### **Hat Switch**

These are programmed in exactly the same way as the Cyborg stick.

#### Rotaries

These are programmed in exactly the same way as the GM2's Thumb Wheel.

# **Pinkie Switch**

This is programmed in exactly the same way as the shift button on the Cyborg stick.

#### **Mode Switch**

The three modes are exactly the same as the "two modes" provided by the <u>Cyborg's</u> two shift buttons – except that you obviously have an extra mode to play with. You will find that the properties of every axis (rotaries, throttle, rudder and x-axes) and hat switch has three tabs at the top for each of the modes – this changes to six tabs when you enable the pinkie switch in its shifted function so you have Mode 1, Mode1 + Pinkie etc. as illustrated below.

stary 1 Propert	ies .	?
General Mode	1   Mode 2   Mode 3   Mode	1 + Pinkie   Mod +
	Rotary 1	
Туре: Ахіз (	ontrol	
Comments		_
	OK Can	cel Apply

The button properties look slightly different in that rather than tabs you have a list of dropdown menus like so;



Either way, commands can be assigned in the appropriate way so that you can set different commands for each mode/shift function etc.

# P8000/PC Dash 2

The P8000 is programmable in exactly the same way as any other controller supported by SGE. It has a total of 37 buttons and a hat switch, all of which are programmable as described in the basic and advanced section of the manual. One of those buttons can become a shift mode button to double up the number of commands to 72 plus the hat switch so it can be a very versatile device.

Bear in mind also that the P8000 doesn't just have to be used for games. In its default setting the buttons all activate different programs and features within Windows itself, such as launching Internet Explorer, opening your Word Processor or even SGE; they can all be reconfigured to do something else and this will be covered in the <u>Advanced Programming</u> section of this guide.

The main feature of the P8000 though (aside from it's programmability) is the ability to print a command overlay sheet that you can cut out and lay over the keys on the unit. This overlay sheet is divided into squares representing each button and, provided you created your commands as described in the <u>basic section</u> of this manual, they will have the name of the command that you assigned to it. Using the software you can change the background colour of each square so that you can have obvious groups of commands (weapon type commands could all be red for example) for quicker and easier location of the command you want to activate. Obviously, without this sheet it could be a tough job remembering what command you assigned to what key.

The method for printing this overlay is described in the printing section of this manual.

#### **Button Properties**

When you double-click on a button in the 3D view of the P8000 you get the following **Properties** window.

operties	and the second	1
eneral Br	ehavior Display	
Туре:	Button Control	
Comments		_
Alhibutes	C Action	

It's very similar to the **Properties** window that you get for other controllers but it has an extra tab at the top called **Display**. This is where we adjust how the button appears on the overlay sheet.



Here you can change how the text appears on the button for your overlay sheet. The dropdown menu next to <u>1</u> allows you to adjust the font for the text. The drop-down menu next to <u>2</u> allows you to adjust the size, <u>3</u> allows you to add Bold, Italicise or Underline settings and whether you want the text to be centred or aligned to the left or right of the box it is in. <u>4</u> allows you to adjust the colour settings – foreground adjusts the colour of the text and background the colour of the box the text will appear in. The box next to <u>5</u> allows you to change the text that appears in the box and finally <u>6</u> allows you to see what it will all look like before you print.

Using this method it is possible to create simple command overlay sheets with commands that are grouped and arranged to your liking.

When checking for profiles on our website, you will see that some of them have more elaborate looking command overlay sheets that you can download. These are created using Paint Shop Pro – the software that is provided on the CD that came with your P8000 – but we will not cover that here. Suffice to say that creation of such command sheets would require a second manual; indeed buying a manual for Paint Shop Pro from a bookshop would be a good idea if you were interested in creating such command overlay sheets for yourself.

# More SGE Features...

# Printing

After creating profiles for your controllers it can be easy to forget exactly what commands you have assigned to what buttons. This can be especially annoying if you forget whilst playing your game. Therefore we have included a printing option in SGE that prints out a **Command Sheet**. This lists each button/axis etc. on your controller, next to which it tells you the name of the command you have assigned to it and the associated keypress. Printing a Command Sheet is easy. Simply open up your game profile in SGE and then right-click on the controller icon within the profile. You will get a drop-down menu appearing, in which one of the options is **Print**. Simply click on this and a sheet will be printed on your printer, which lists each button and the commands associated to it.



The P8000 is slightly different. You actually have two print options with this controller and this is reflected when you point to Print in that drop-down menu; you get two options pop out to the side of it like below.



Clicking on **Overlay** will print out a command overlay sheet as described in the section of this manual relating to P8000. Clicking on **Configuration** will print out a similar sheet to the one you get with all the other controllers.

Either way you can then use the printed sheet for reference to which command you have assigned to a button on your controller.

# Importing and Exporting a Profile

Before we move on to *Advanced Command Creation*, we will quickly show how to import a pre-made profile and also how to export your profiles so you can back them up. The CD that came with your controller has a number of pre-made profiles on it and there are more added to our website nearly every week. The benefit to you is that the profiles we make already have all the basic commands from the game it was created for – this will save you the time and effort of creating all those commands yourself. Any advanced, <u>extended</u> commands or <u>cycle</u> commands you want to create can be added to the profile by yourself as described in the <u>Advance Command Creation</u> section of this manual.

# Importing

Importing is a simple step-by-step process just like <u>creating a new profile</u>. From the main SGE window, double-click on the **Import Game Wizard** icon to start importing a profile. The first screen is a simple welcome so you can just click **Next**. The next screen asks you if you want to import an exported SGE file or a Command Centre file.

Import Game: Game type se	lection Select a file type from the list below.
	<ul> <li>Exported SGE File (.psi)</li> <li>Command Centre File (.sai)</li> </ul>
	<u>&lt; B</u> ack <u>N</u> ext > Cancel

In the majority of cases you will be selecting an exported SGE file. The Command Centre files are those that were created by the programming software for three of our older products – the original Cyborg 3D Digital Stick and Pad and the PC Dash. These profiles are available on our website under the Cyborg 3D Digital's files section but please bear in mind that importing these will just import a command list – you will have to assign any commands to the buttons as if starting from fresh.

For this example though select Exported SGE file and then click **Next** – you will get the following screen.

1	Select the file to import and the location of the Game. The associated Game can be modified or selected in the Game properties.
	Click Browse to locate the file to Import Browse Profile Groß Browse to locate the Game Browse Grome Grome
	Grok Browse to locate the Grame Browse

The first thing we need to do is to locate the file we want to import. To do this we click **Browse** and then we point the **Browse** window to the location of the profile either on your hard disk or on the CD that came with your controller. Once we've selected the profile we want to import in the **Browse** window, we click open and it then takes us back to the **Import Game** screen.

	Select the file to import and the location of the Game.	
1.00	The associated Game can be modified or selected in the Game properties.	
1 Andala	Click Browse to locate the file to Import Browse	I
NG# 11	Profile: Oni Profile - GM2.psi	1
	Click Browse to locate the Game. Browse	1
1 mar	Game: C:\Program Files\Oni\ONI.EXE	

In the example above we have chosen the Oni profile. Because the profile was correctly made using the **New Game Wizard** and was associated with the **Oni.exe** file when we imported the profile above it correctly inputted the location information for Oni in the Game window (**C:\Program File\Oni\ONI.EXE**). However, if the profile was not correctly associated with the game's exe file when it was created or if you have installed the game into a different location (e.g. **C:\Oni\ONI.EXE**) then the profile will not be able to link up with the .exe file on your computer and you will get the following message.

Saitek G	aming Extensions 🔀
	The Game executable C:\Program Files\Oni\ONI.EXE could not be found on your system. Failure to specify a Game to associate with this Profile will result in Autoactivation not working for the profile.
	Would you like to browse for a Game?

At this point you should click **Yes** and you will get a **Browse** window, which you should point to the correct location of the game's .exe file on your hard drive. Once that is done click **Open** and the correct location of the game should then be displayed in the **Game** window. Click

**Finish** to finalise these settings and you will then have an icon for your new profile in the **SGE** window.

# **Exporting a Profile**

All the profiles you can download are available because you can export any profiles you make to a single file. This is a good thing to do just to have a backup of any profiles that you've made – having to create all those commands from scratch can be laborious. It's very simple to export a file – all you do is right-click on the profile in the **SGE** window and choose **Export**.



A window will then pop up asking you where you want to save the file to on your hard disk, also giving you the option to change the name of the file if you require. Make all your choices and then click **Save**. That's it – you've just exported a profile.

# What to do if a profile isn't there for your controller

A hypothetical situation - you are looking for a profile for a particular game for your controller, either on the website or on the CD. You can find one for another controller but not for yours; what do you do? The answer is to import that profile anyway because you can add a controller into a profile whenever you like. This is another simple process. Once you've imported the profile, open it up in the **SGE** window and then point to a blank area of the window and right-click the mouse. Point to **New** in the drop-down menu and then choose the controller you want to add from the pop-out list.



Once you've selected your controller you will see the icon for it appear within the profile. You can then double-click on it to bring up the 3D model and then begin assigning commands just as described in the <u>basic section</u> of this guide.

# Advanced Command Creation

As mentioned earlier, you are not limited to single key presses when creating commands; in fact command creation is only limited by what you want to do. As well as this you can assign the opening of applications or even websites to the buttons on your controller. All this will be covered in this section.

#### **Extended Commands**

Open up a command and click the **Action** tab at the top of the window to bring up the bar where you input your keystrokes. Now click the **Advanced** button on this window and you will get the following.

w Command Prope	erties		?
General Action			
PRESS REPEAT REL	EASE		
30			2
Mouse Buttons			
000			
Repeat Cycle			
Minimum Length	0.20	÷	
		0.000	
Simple <<			
	OF.	Current	1000

As you can see we have some new options on the screen now. In the command input bar we now have three 'columns' that refer to the actual button on your controller you are configuring. Any keystroke we place in the press column will activate when we press the buttons on the controller. Any keystroke in the repeat column will activate as long as we hold down the button on the controller and the keystroke in the release column will be activated when we let go of the button on the controller.

The mouse buttons allow us to make the button pretend to be a mouse button of our choice and the **Repeat Cycle** sets how often the keystrokes placed in the **Repeat** column will repeat whilst the button on the controller is held down. For example if we had keystrokes **h**,**g**,**f** in the repeat column then at the current setting in the picture above the software would wait .20 of a second before repeating **h**,**g**,**f** whilst we held the button on the controller down.

So what does this allow us to do? Anything. One thing you will notice when inputting keystrokes whilst in Advanced Mode is that you get two keystrokes for every one key you press – like below.



This is reflecting the way in which your keyboard actually works. When you press a key on a keyboard you actually get two signals – one when you press it and one when you release it. The numbers under the key presses above are the time (in seconds) between the key being pressed and released – in this case it was a simple short keypress because the time is only .11 of a second. This time can be adjusted though. When creating the keypress the software will record how long you pressed the key down for, so you can adjust it there by holding the key down for how long you want it to be held down for. Alternatively, you can adjust the

timings below the key presses by using the mouse to 'drag' the time to your chosen setting. Simply point to the time you want to adjust and click and hold down the left mouse button. Now drag the mouse right or left to increase or decrease, respectively, the timing.

To give you an idea of what all this means together have a look at the below example.

ASE	RELE		PEAT	RE		ESS	PR
F1	F1	F7	EFT ]	F6	F6 }	Space	Space ]
0.85	6.00	\$.11	5.88	8.06	0.00	8.11	8.00
							0

Imagine we are playing a space combat simulator. When I press the button on the controller that this command is assigned to a missile is launched (Space). Whilst holding the button down the command switches to a Missile View (F6) so we can track the progress of the missile. It then waits 5 seconds before switching to a view of the enemy ship we have targeted (F7). When we let go of the button it switches back to a view of our cockpit (F1). Note that unless we adjust the **Repeat Cycle** setting it will very quickly switch back to the Missile View if we leave the button on the controller held down so we may want to adjust the **Repeat Cycle** setting like 4.00 or 5.00 seconds.

This is just an example of what you can do with the Advanced Command editor.

# **Cycle Commands**

If we go back to the **General** tab in the command properties we can see that there are other settings we can assign to the button.

G		
Name:	New Command	
	C Single Action	
	Cycle of Actions	
	Web Site	

In this example we have changed the setting from Single Action to Cycle of Actions and you will notice that the tab at the top of the window has changed from **Action** to **Cycle**. Clicking on this tab gives you the following screen.

Backwards + Le			
Backwards + Ri Backwards Cart	ght -	-> [	
Crouch Cyborg Stick Tri			
Forwards Forwards + Left			
Forwards + Righ Jump	4		
Rick Pick Up			
Punch Reload	<		
Strate Left Strate Right	-	1	

A **Cycle of Actions** is basically a series of commands that you can assign to a single button. These commands are then activated in the order you assigned them each time you press the button that this Cycle of Actions has been assigned to. Looking at the picture above we are looking at the list of commands created for the game Oni (the same one used in the basic section of the manual). In this game you can use combinations of commands to create more powerful move combinations. For example, if you were to press Punch, Punch, Kick it would execute two punches and then a spinning kick. Rather than pressing two separate buttons we could assign this cycle to the one button.

So all we do is select the first action in the cycle that we want to add in from the **Single Actions** column. Then we click the box with the arrow pointing to the right to add it in to the **Actions in Cycle** column.

Single Actions	Actions in Cycle
Backwards + Leit Backwards + Leit Backwards + Right Backwards Cartwhee Crouch Cryborg Stick Trigger Forwards + Leit Forwards + Leit Forwards + Leit Forwards + Right Jump Pick Up Pick Up Punch Reload Strafe Leit Strafe Leit	Sume Punch Punch Kick

Do this for each command you want to place in the cycle and you will end up with something like the above. Now, when we want to execute the combo move in Oni we simply need to press the same button three times and it will activate the punch command on the first press, the punch command again on the second press and then the kick command on the third press. It will start the cycle from the beginning the next time you press the button. That's all there is to programming a Cycle of Actions.

# **Application Commands**

Clicking the **Application** option in the **General** tab of a command properties page changes the **Action** tab at the top to an **Application** tab. Clicking on this tab brings up the following screen.

		111
General Application		
An Application com with a command.	mand allows you to as	sociate a Program
J		Browse_
	s to pass to the Applic	ation in the
Arguments box. For file name as an Argu	example a Word Proc ment.	essor may accept a
Erries any Parameter Arguments box. For file name as an Argu Arguments	example a Word Proc ment.	essor may accept a

This is a function that will mainly only be used with the P8000 but it can be done for any controller supported by SGE. Basically, you can assign any button on your controller to launch an application when you press it. This would only normally be used from within Windows rather than in a game.

To choose the application you want to assign a command to simply click **Browse** and then point it to the **.exe** file for the application you are looking to run from this button. In the example below we have associated the button with the **NotePad** application in Windows.

Dpen Look jn: 🔁	Windows		• • <b>• •</b>	<u>2×</u> 1000
Hwinto Ploconfig IsUninst Jview Mm2ent		Mplayer Mshearts Msncreat Msnmgs1 Nbtstat Net	Up One Leve Nets D p. 99 Pack	a) at 000 04 b
•				2
File pame:	Notepad			<u>Open</u>
Files of type:	Programs			Cancel

Here you can choose anything you want – you can even assign the buttons to launch your favourite games.

You can also access the application setup from the 3D model of the controller as indicated in the picture below.



Simply click on the button you want to assign and then from the drop-down menu at the bottom of the screen, choose **Application**. You can then click the **Set-up** button and then **Browse** for the **.exe** file for your application or game just as described above.

# Website Commands

Finally, it is possible to assign a button to open specific Website addresses. Again this is going to be mainly used by the P8000 but any controller supported by SGE can do it. Selecting the **Website** option in the **Command Properties** window will change the tab at the top to **Web Command** and clicking on this will bring up the following window.

General Webl	Command	
A Web comma command. Th for use on your	nd allows you to associate a le list below contains all the 'w computer.	Web Site with a Yeb Sites currently set up
		2
		Browse

Simply type in the address of the website you wish to assign to this command (e.g. <u>www.saitek.com</u>). Clicking **Browse** will take you to the Favourites folder in Windows where any websites that you have bookmarked will be saved, so you can also select any websites from there.

Open	<u>?</u> ×
Look jn: 💽 Favorites	· • • • •
Channels Links Media [STOMPED] Ain't It Cool News Amazon co.uk	환Cor 환Dai 환Dai 환File 환Gan 환Jgar
Files of type:	Qpen     Cancel

As with the **Application** option you can also set up website commands to buttons from the 3D model of the controller, using the drop-down list at the bottom of the screen – as below.



Clicking the **Browse** button that then appears takes you to the **Favourites** folder again or you can type the web address into the bar at the bottom of the screen.

# **Troubleshooting Your Profiles**

Sometimes you might find that your profile simply isn't doing what you programmed it to do. There are several things to check if this is the case. Firstly, you need an understanding of how SGE works. Every profile you create in SGE is associated with a program. What SGE basically does is monitor what your PC is running. As soon as you run a program that SGE has a profile made for then it loads the profile into your controller – this is called **Auto-Activation** or **Auto-Configure**. The program that monitors this is represented by the little black joystick icon in the system tray next to your clock.



Some programs, because of the way they work and load, do not work correctly with the Auto-Configure so we have included an option to load the profile you want into the controller manually.

All you do is open up the SGE window and right-click on the profile you want to load into your controller. You will get a drop-down menu like below.



Select Configure Game Now and you will get the following warning.

Saitek G	iaming Extensions 🗾
	You cannot configure a profile unless Auto Configure is disabled. This is because Auto Configure will override what you are doing. Do you want to disable Auto Configure?
	You should enable Auto Configure once you have finished with this profile.
	Yes No

Basically, what it is saying is that we are going to load a profile into the controller, but in order to do this we need to temporarily disable the Auto-Configure. Click **Yes**, and you will notice that the black joystick icon next to your clock now has a red 'Stop' sign around it.

#### Q 🛛 🔇 🔍 🖓 💭 13.06

The profile is now loaded into your controller. If at any time you want to reactivate the Auto-Configure just right-click on the black stick icon and the red 'stop' sign will disappear meaning that Auto-Configure is reactivated.

Whilst the profile has been loaded into the controller, there is a good way to test whether your commands are programming other than going into a game – run a word processor! Any one will do but most the one that everyone has is NotePad. This can be accessed from the **Start > Programs > Accessories** menu in Windows. Once you've opened it, just press the buttons on your controller and you should start seeing keystrokes appearing in NotePad. Obviously, some keys that you've programmed won't appear – the F1-F12 buttons don't print out in a word processor for example. Any letters or numbers however should print out quite happily and of course any commands including the cursor keys on the keyboard will move the cursor in the NotePad left, right, up and down.

This is a good test because if the keys all work in here then they will work in the game.

One other reason for the Auto-Configure not be work is that the profile is not correctly associated with the game's **.exe** file. This is unlikely if you have created a profile using the **New Game Wizard**, because part of that process is ensuring that the profile is associated with the game that you selected during the wizard.

If you have imported a profile, however, either from the CD, from the website or elsewhere, then it is possible that it won't be correctly associated with the game's .exe file. Again, if you ran the **Import Game Wizard** then you should have associated the profile with the game you were importing it for but we will go over how to check a profile's associations here.

In the SGE window right-click on the profile you want to check and click **Properties** from the drop-down list.



You will see the following window.

Come	FORCOUTS
Target:	C:\Program Files\Oni\ONI.EXE
Comments:	

The **Target** window is where we need to be looking. It needs to list the correct location of the game's **.exe** file on your hard drive. In the example above you can see that the game we used when <u>creating our profile</u> in the basic section of the manual, Oni, is installed in the **C:\Program Files\Oni** directory. If this was incorrect or if it said nothing in the Target box then we would need to click **Find Target** and point the profile to the correct location of the .exe file.

Open			2 ×
Look in:	Oni	- 🗈 🗹	
🗋 GameDala Moni	aFolder		
File name	<b>STI</b>		(Iner )
Files of type:	Game Files	×	Cancel

Click **Open** and then **Apply** and this will ensure that the profile is now correctly associated with the profile.

Another reason for the profile to not be working correctly is if you have created more than one profile for the same game. If you have done this then one of the profiles will be slightly greyed out as seen in the example below.



The profile whose icon is still bold is currently set as the 'default profile', which means that it overrides the other profile and is currently the only one that will load into the controller when you run the game. To make the greyed-out profile your controller's default, just right-click on it and choose the **Set As Default** option from the drop-down list



That should cover any possible problems you might have with your profiles under SGE.

#### Enjoy your gaming!